

**LOCATELLI et al.**  
**Serial No. 09/831,820**  
**Nov mb r 21, 2003**

**REMARKS**

Reconsideration is requested.

Claims 7, 8, and 10-18 have been canceled, without prejudice. The details of claim 14, which the Examiner has indicated contains allowable subject matter (see, page 8 of the Office Action dated June 25, 2003), have been included in the above amended claims 1 and 2, place claims 1-6 and 9 (i.e., all the pending claims upon entry of this Amendment) in condition for allowance.

Entry of the above amendments and consideration and allowance of all the claims are requested.

The Examiner's comments with regard to the inclusion of sequence identifiers in Table 1 on pages 12-15 of the specification are noted. See, page 2 of the Office Action dated June 25, 2003. The Examiner is requested to see the Amendment of April 25, 2003, at page 2, wherein insertion of the new pages 12-15 attached to the Amendment was requested. A clean and marked-up copies of new Table 1, including the sequence identifiers, were attached to the Amendment of April 25, 2003. Further copies of the same along with the undersigned's Post Card of April 25, 2003, acknowledging the Patent Office receipt of the pages to be inserted are attached. The Examiner is requested to advise the undersigned if anything further is required in this regard and/or if the undersigned has misunderstood the Examiner's continued objection.

The Section 103 rejection of claims 1-9 over Gibson (Genome Research (1996) 6:995-1001) in view of WalkerPeach (U.S. Patent No. 6,395,470), will be moot upon the entry of the above amendments. As noted above, the claims have been amended to define the subject matter indicated by the Examiner to be patentable over the art, to

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advance prosecution and without prejudice. Entry of the above amendments and withdrawal of the Section 103 rejection are requested.

The Section 103 rejection claims 1-10 over Gibson in view of WalkerPeach and Kennedy (Journal of Pathology (1997) 183:447-453), will be moot upon entry of the above amendments. As noted above, the claims have been amended to advance prosecution, without prejudice, and define subject matter indicated by the Examiner as being patentable over the art. Entry of the above amendments and withdrawal of the Section 103 rejection of claims 1-10 are requested.

The claims are submitted to be in condition for allowance and a Notice to that effect is requested.

The Examiner is requested to contact the undersigned if anything further is required in this regard.

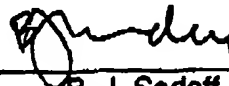
The Examiner is requested to notify the undersigned of any drawing objections and allow time to file any required corrections as the undersigned's file does not indicate either an acceptance of the drawings or any rejection thereof. Completion of the record in this regard is requested.

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**November 21, 2003**

Respectfully submitted,

**NIXON & VANDERHYE P.C.**

By: \_\_\_\_\_



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Table 1

HIV-7	Primers	Probes
	Forward (SEQ ID NO:1) 5' AGCGGTACCTGTAAATCATCCCA3' Reverse (SEQ ID NO:2) 5' AACAGAAACGCCACCTCGAT3'	Standard (SEQ ID NO:3) 5' ACCAGTGAGAACATCGCTCTAACTGGATCA 3' Calibrator (SEQ ID NO:4) 5' TAAGCCCTGACCCGACCGGTATAATACTAA 3'
HIV-8	Primers	Probes
	Forward (SEQ ID NO:5) 5' GTCCAGACGATATGTGCGC3' Reverse (SEQ ID NO:6) 5' ACTCCAAATATCGGCCGG3'	Standard (SEQ ID NO:7) 5' CATTTGGTGTATATAGATCAAGTTCCGCCA3' Calibrator (SEQ ID NO:8) 5' ACATTCCTCCATCCCGAAATTCGAGCATAGTTG3'

(continued)

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Table 1 (continued)

	Primers	Probes
HIV-1	Forward (SEQ ID NO:9)	Standard (SEQ ID NO:11)
	5' TACTGACGCTCTCGCACC 3'	5' ATCTCTCTCTTCTAGCCCTCCGCTAGTCAA 3'
	Reverse (SEQ ID NO:10)	Calibrator (SEQ ID NO:12)
	5' TCTCGACGCGAGGACTCG 3'	5' ACTCTCAGCGGCATTCTCTCTCACTTCTACT 3'
CAMV	Primers	Probes
	Forward (SEQ ID NO:13)	Standard (SEQ ID NO:15)
	5' GTCTTGCGAAGGATAGTGGGA 3'	5' TCGGTCA TCCCTTACOTCAGTGGAGAT 3'
	Reverse (SEQ ID NO:14)	Calibrator (SEQ ID NO:16)
	5' CACGTCTTCAAAGCAAGTGGGA 3'	5' ATCGCTACATGCTAGGCATCTGTGTGC 3'

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Table 1 (continued)

	Primers	Probes
Myc. T. 1	Forward (SEQ ID NO:17)	Standard (SEQ ID NO:19)
	5' AGGAGGAGTGCGCTGATG 3'	5' ACGAGGAGTCGCTGGCCGATCC 3'
	Reverse (SEQ ID NO:18)	Calibrator (SEQ ID NO:20)
	5' ACTCGGCGAGAGCTGCC 3'	5' TCCAGCGTCAGGCGTAAGCAGC 3'
Myc. T. 2	Primers	Probes
	Forward (SEQ ID NO:21)	Standard (SEQ ID NO:23)
	5' AGGCGAACCCTGCCCAAG 3'	5' TCGACACATAGGTGAGGTCTGCTACCCACA 3'
	Reverse (SEQ ID NO:22)	Calibrator (SEQ ID NO:24)
	5' GATCGCTGATCCGGCCA 3'	5' ACTACGACTACCGCTGGGATCGACATCGAT 3'

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Table 2

	Primers	Probes
IIIV-6	Forward (SEQ ID NO:25)	Standard (SEQ ID NO:27)
	5' CAAAGCCAAATTATCCAGAGCG 3'	5' CACCAGACGTCACACCCGAAGGAAT 3'
	Reverse (SEQ ID NO:26)	Calibrator (SEQ ID NO:28)
	5' CGCTAGGTTGAGGATGATCGA 3'	5' TACGCAACGCCAACAGACCTAGCGA 3'
	Calibrator	
	Primer forward (SEQ ID NO:29)	Probe (SEQ ID NO:31)
	5' CCGGAAACCGAACAATTACTGAA 3'	5' TACGCAACGCCAACAGACCTAGCGA 3'
	Primer reverse (SEQ ID NO:30)	
	5' TTACGTGAGGATGATCGAGGC 3'	

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Table I

	Primers	Probes
HIV-7	Forward (Seq ID No:1)	Standard (Seq ID No:3)
	5' AGCGGTACCTGTAAATCATCCAA 3'	5' ACCAGTGAGAACATCGCTCTAACTGGATCA 3'
	Reverse (Seq ID No:2)	Calibrator (Seq ID No:4)
	5' AACAGAAACGCCACCTCGAT 3'	5' TAAGCCCTGACCCGACGGGTATAATACTAA 3'
HIV-8	Primers	Probes
	Forward (Seq ID No:5)	Standard (Seq ID No:7)
	5' GTCCAGACGATATGTGGCG 3'	5' CATTTGGTGTATATAGATCAAGTTCCGCCA 3'
	Reverse (Seq ID No:6)	Calibrator (Seq ID No:8)
	5' ACTCCAAAATATCCGCCCG 3'	5' ACTATTCCATCGGGAATTCGAGCATAGTTG 3'

(continued)



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Table 1 (continued)

	Primers	Probes
HIV-1	Forward (Seq ID No:9)	Standard (Seq ID No:11)
	5' TACTGACCGCTCTCGCACC 3'	5' ATCTCTCTCTCTCTTCTTAGCCTCCGCTAGTCAA 3'
	Reverse (Seq ID No:10)	Calibrator (Seq ID No:12)
	5' TCTCGACCGCAGGACTCG 3'	5' ACTCTCAGCGGCACTTCTCTCACTTCTACT 3'
CMV	Primers	Probes
	Forward (Seq ID No:13)	Standard (Seq ID No:15)
	5' GTCTTGCGAAGGATAGTGGG 3'	5' TGGGTTCATCCCTTACGTCAAGTGGAGAT 3'
	Reverse (Seq ID No:14)	Calibrator (Seq ID No:16)
	5' CACGTCTTCAAGCAAGTGG 3'	5' ATCGCTACATGCTAGGCATCTGTGTGC 3'

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Table 1 (continued)

	Primers	Probes
Myc. T. 1	Forward ( <u>seq id no: 17</u> )	Standard ( <u>seq id no: 19</u> )
	5' AGGAGGAGTGCGCTGATG 3'	5' ACGAGGAGTCCGCTGGCCGATCC 3'
	Reverse ( <u>seq id no: 18</u> )	Calibrator ( <u>seq id no: 20</u> )
	5' ACTCGCGGAGAGCTGCC 3'	5' TCCAGCGTCAGGCGTAGGCCAGC 3'
Myc. T. 2	Primers	Probes
	Forward ( <u>seq id no: 21</u> )	Standard ( <u>seq id no: 23</u> )
	5' AGGCGAACCCTGCCCCAG 3'	5' TCGACACATAGGTGAGGTCTGCTACCCACA 3'
	Reverse ( <u>seq id no: 22</u> )	Calibrator ( <u>seq id no: 24</u> )
	5' GATCGCTGATCCGGCCA 3'	5' ACTACGACTACGGCTGGGATCGGACATCGAT 3'

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Table 2

Primers	Probes
Forward (SEQ ID NO: 25)	Standard (SEQ ID NO: 27)
5' CAAAGCCAAATTATCCAGAGCG 3'	5' CACCAGACGTCACACCCGAAGGAAT 3'
Reverse (SEQ ID NO: 26)	Calibrator (SEQ ID NO: 28)
5' CGCTAGGTTGAGGATGATCGA 3'	5' TACGCAACGCCAACAGACCTAGCGA 3'
IIIV-6	
Calibrator	
Primer forward (SEQ ID NO: 27)	Probe (SEQ ID NO: 31)
5' CCGGAACCGAACAATTACTGAA 3'	5' TACGCAACGCCAACAGACCTAGCGA 3'
Primer reverse (SEQ ID NO: 30)	
5' TTACCTGAGGATGATCGAGGC 3'	

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Serial No.: 09/831,820  
Inventor/s: LOCATELLI et al.  
Title: METHOD FOR THE QUANTITATIVE DETECTION  
OF NUCLEIC ACIDS

C#/M#: 1303-122

Atty: B. J. Sadoff

Date: Apr. 25, 03

**XX** Amendment  
☒ Address Indication Form



**\$410.00** Fee (Check) - Non Pre-Bill

**\$410.00** Total Fee Enclosed

Other: Declaration of Mauro Severo Mainati; New  
Pages 12-15; Marked-up Copy of Pages 12-15; Copies of  
U.S. Patent Nos. 5,210,015 and 5,875,930